



# SHAKUN POLYMERS PRIVATE LIMITED



## SPL-AFOSR

### HIGH PERFORMANCE PVC COMPOUND

#### Description

**SPL-AFOSR** is a High performance PVC based **Oil resistant** Compound for Jacketing of Cables. **SPL-AFOSR** exhibits very good Flexibility and Flame Retardancy. It is available in Natural / Black colour.

#### Specifications:

**SPL-AFOSR** meets the requirements of **BS 7655 Type 9, IEC 60227-1 Type ST9, IEC 60502 Type ST2, IEC 332-3,Cat.C Specifications.**

#### Features:

**SPL-AFOSR** provides following properties

- Good Flame retardancy
- Long-term reliability & UV stability
- Hydrocarbon resistant
- Anti termite & Anti rodent

#### Typical Properties

<i>Property</i>	<i>Test Method</i>	<i>Unit</i>	<i>Value</i>
Density	ASTM D 792	g/cm <sup>3</sup>	1.47
Tensile Strength	IEC 60811-1-1	MPa	15
Elongation	IEC 60811-1-1	%	270
Variation of Tensile Properties after Ageing at 100 <sup>0</sup> C for 168 Hours			
- Tensile strength	IEC 60811-1-1	%	-7
- Elongation at break	IEC 60811-1-1	%	-11
Retention of Tensile Properties after UV-Exposure for 720 Hours			
Tensile Strength	ASTM G 154	%	90
Elongation at break		%	88
Hardness	ASTM D 2240	Shore A	90
Limiting Oxygen Index	ASTM D 2863	% O <sub>2</sub>	30
Halogen Acid Gas Generation	IEC 60754-1	%	15
Oil Resistance in ASTM Oil No. 2 at 100 <sup>0</sup> C for 24 Hrs			
- Variation in Tensile	IEC 60811-1-1	%	-8
- Variation in Elongation	IEC 60811-1-1	%	-12
Pressure Test at 90 ± 2 <sup>0</sup> C, 6Hrs	IEC 60811-3-1	%	30
Loss of Mass @ 100 ± 2 <sup>0</sup> C, 168 Hours	IEC 60811-3-2	mg/cm <sup>2</sup>	1.1
Thermal Stability @ 200 <sup>0</sup> C	IEC 60811-3-2	Minutes	100

\* Press Sheet Conditions: 180 ° C, 10 min, 200kg / cm<sup>2</sup>

\* Data should not be used for specification work

## Processing Techniques

**SPL-AFOSR** is an easily processable material on conventional PVC extruders. Recommended extrusion temperatures are in the range of 130°C-190°C. Specific Processing conditions can be determined only by trials on individual equipment.

## Packaging

**SPL-AFOSR** is available in the form of free flowing pellets in Raffia bags with a net content of 30 Kgs.

## Storage & shelf life

The product/compound should remain in

- Sealed condition
- Without exposing to direct sunlight and temperature not exceeding 45°C

Shelf life of the compound is 12 months from the date of manufacture.

Product alteration may occur due to extended period of storage.

Shakun accepts no liability of any kind in case the above mentioned storage conditions are not fulfilled.

## Safety

**SPL-AFOSR** is not classified as a dangerous preparation.

The product is supplied in form of pellets of about 3 – 4 mm in size and can be readily handled with commercially available equipment. All handling and transport of the product may generate some dust and fines, which constitute a potential risk for dust explosion. Therefore, all instruments in the system should be properly grounded. Properly designed equipment and good storage will reduce the potential risk. Please, check and follow local disposal regulations!

Inhalation of any type of dust may irritate the air passages and should be avoided. For hot products: immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.

In case of adverse exposure to melting products formed at elevated temperatures, immediately remove, the affected victim from exposure.

Sweep up spilled granules and place in suitable containers for recycle or disposal. Consult an expert on disposal or recovered material and ensure conformity to local disposal regulations.

The product is intended for industrial use only. A Material Safety Datasheet is available on request. Please contact our Technical Team of SHAKUN POLYMERS PRIVATE LTD., for more details on various aspects of safety, recovery and disposal of the product.

This information is to the best of our knowledge accurate but all recommendations or suggestions are made without guarantee or legal liabilities since the conditions of use are beyond our control. The typical values given do not constitute specification for the product but represent typical analytical values.

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